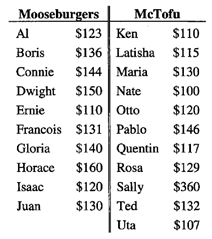
AP Statistics Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ch 4 & 5 Classwork Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Here are the weekly payrolls for two factitious restaurants.

1. Find the following summary statistics for both restaurants.

|  |  |  |
| --- | --- | --- |
| **Statistic** | **Mooseburgers** | **McTofu** |
| Mean |  |  |
| St. Dev. |  |  |
| Min |  |  |
| Q1 |  |  |
| Med |  |  |
| Q3 |  |  |
| Max |  |  |
| IQR |  |  |

1. Are there any outliers in the distribution of payrolls for Mooseburgers? Show work to justify your conclusion.
2. Are there any outliers in the distribution of payrolls for McTofu? Show work to justify your conclusion.
3. Which pair of summary statistics would be most appropriate for describing the distribution of payrolls for Mooseburgers? Explain why.
4. Which pair of summary statistics would be most appropriate for describing the distribution of payrolls for Mooseburgers? Explain why.
5. Create parallel boxplots. Label you graph clearly.



1. Write a few sentences comparing the two distributions.
2. At which restaurant would you rather work? Give a sound statistical justification.

1. All students in a large physical education class completed a basketball free-throw shooting event and the highest number of shots made was 32. The next day a student who had just transferred into the school completed the event, making 40 shots. Indicate whether adding the new student’s score to the rest of the data made each of these summary statistics increase, decrease, or stay about the same:
2. mean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. median \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. IQR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. standard deviation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_